Math 112 ReQuiz 05A06A

2022-02-01 (T)

Your name:	

Exercise

(4 pt) Consider the function

$$\mathsf{f}: R \to R$$

$$f(x) = (x^2 - 1)^5 - \sin(\pi x)$$

(a) (3 pt) Compute the linearization of (aka linear approximation to) f at x = 1.

(b) (1 pt) Use your linearization from part (a) to approximate the value f(0). Find the error in this approximation.